10/082,001

MARKED-UP COPY OF PENDING CLAIMS

1.	A compound of the genera	l formula
	A C	

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B

wherein

A is an amino acid having at least one functional group in the side chain,

B is a chemical compound covalently bound to at least one functional group of the side chain of A, chosen from the group consisting of:

- (a) oligopeptides having a chain length of up to 20 amino acids, except for homopolymers of glycine consisting of up to 6 glycine monomers, and
- (b) polyethylene glycols having molar masses of up to 20 000 g/mol; and C is a group amide-bonded to A chosen from the group consisting of thiazolidine, pyrrolidine, cyanopyrrolidine, hydroxyproline, dehydroproline and piperidine.
- 2. The compound according to claim 1, wherein A is an α -amino acid.
- 3. The compound according to claim 2, wherein A is a natural α -amino acid.
- 4. The compound according to claim 1, wherein the amino acid is chosen from the group consisting of threonine, tyrosine, serine, arginine, lysine, aspartic acid, glutamic acid and cysteine.
- 5. The compound according to claim 1, wherein the oligopeptides have chain lengths of from 3 to 15 amino acids.
- 6. The compound according to claim 1, wherein the oligopeptides are chosen from the group consisting of homopolymers, copolymers or block copolymers.
- 7. The compound according to claim 1, wherein the polyethylene glycols have molar masses of at least 250 g/mol.

- 8. The compound according to claim 1, wherein C is a group chosen from the group consisting of thiazolidine, pyrrolidine and cyanopyrrolidine.
- 9. A pharmaceutical composition comprising the compound according to claim 1, optionally in combination with pharmaceutically acceptable carriers or adjuvants.
- 10. A cosmetic composition comprising the compound according to claim 1, optionally in combination with cosmetically acceptable carriers or adjuvants.
- 11. A method for topically influencing the activity of dipeptidyl peptidase IV or of analogous enzymes in a subject, comprising administering a therapeutically effective amount of at least one compound or pharmaceutical or cosmetic composition according to claim 1 to said subject.
- 12. A method for prophylaxis or therapy of diseases of the skin or mucosa, autoimmune diseases and inflammation in a subject, comprising administering a therapeutically effective amount of at least one compound or pharmaceutical or cosmetic composition according to claim 1 to said subject.
- 13. A method for prophylaxis or therapy of inflammation, psoriasis, allergies, arthritis, tumors or autoimmune diseases in a subject comprising the administration of a therapeutically effective amount of at least one compound or pharmaceutical or cosmetic composition according to claim 1 to said subject.
- 14. [AMENDED] A pharmaceutical composition comprising at least one compound of the general formula A—C

B

wherein

A is an amino acid having at least one functional group in the side chain,

B is a chemical compound covalently bound to at least one functional group in the side chain of A, chosen from the group consisting of:

- (a) oligopeptides having a chain length of up to 20 amino acids,
- (b) polyethylene glycols having molar masses of up to 20,000 g/mol,

(c) optionally substituted organic amines, amides, alcohols, acids or aromatic compounds having from 8 to 50 carbon atoms,

C is a group, amide-bonded to A, chosen from the group consisting of thiazolidine, pyrrolidine, cyanopyrrolidine, hydroxyproline, dehydroproline and piperidine, excluding H-Glu[NH(CH₂)₇CONH(CH₂)₃NHZ] pyrrolidide and H-Lys[CO(CH₂)₃NHSO₂Pfp] pyrrolidide, provided that C is not H-Glu[NH(CH₂)₇CONH(CH₂)₃NHZ] pyrrolidide or H-Lys[CO(CH₂)₃NHSO₂Pfp] pyrrolidide

and at least one pharmaceutically acceptable adjuvant appropriate for the site of action.

- 15. The pharmaceutical composition according to claim 14, wherein A is an α -amino acid.
- 16. The pharmaceutical composition according to claim 15, wherein A is a natural α -amino acid.
- 17. The pharmaceutical composition according to claim 16, wherein the amino acid is chosen from the group consisting of threonine, tyrosine, serine, arginine, lysine, aspartic acid, glutamic acid and cysteine.
- 18. The pharmaceutical composition according to claim 14, wherein the oligopeptides have chain lengths of from 3 to 15 amino acids.
- 19. The pharmaceutical composition according to claim 14, wherein the oligopeptides are chosen from the group consisting of homopolymers, copolymers and block copolymers.
- 20. The pharmaceutical composition according to claim 14, wherein the polyethylene glycols have molar masses of at least 250 g/mol.
- 21. [AMENDED] The pharmaceutical composition according to claim[s] 14[to 21], wherein C is a group chosen from the group consisting of thiazolidine, pyrrolidine and cyanopyrrolidine.

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- 22. The pharmaceutical composition according to claim 14, further comprising pharmaceutically acceptable carriers.
- 23. A method for topically influencing the activity of dipeptidyl peptidase IV or of analogous enzymes in a subject comprising administering to said subject a therapeutically effective amount of a pharmaceutical composition according to claim 14.
- 24. A Method for prophylaxis or therapy of diseases of the skin or mucosa, autoimmune diseases and inflammation in a subject comprising administering to said subject a therapeutically effective amount of a pharmaceutical composition according to claim 14.
- 25. A method for prophylaxis or therapy of inflammation, psoriasis, periodontitis, allergies, arthritis, tumors or autoimmune diseases in a subject comprising administering to said subject a therapeutically effective amount of a pharmaceutical composition according to claim 14.

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CLAIMS AS ORIGINALLY SUBMITTED

1. A compound of the general formula

A—C
|
B
wherein

A is an amino acid having at least one functional group in the side chain,

B is a chemical compound covalently bound to at least one functional group of the side chain of A, chosen from the group consisting of:

- (a) oligopeptides having a chain length of up to 20 amino acids, except for homopolymers of glycine consisting of up to 6 glycine monomers, and
- (b) polyethylene glycols having molar masses of up to 20 000 g/mol; and C is a group amide-bonded to A chosen from the group consisting of thiazolidine, pyrrolidine, cyanopyrrolidine, hydroxyproline, dehydroproline and piperidine.
- 2. The compound according to claim 1, wherein A is an α -amino acid.
- 3. The compound according to claim 2, wherein A is a natural α -amino acid.
- 4. The compound according to claim 1, wherein the amino acid is chosen from the group consisting of threonine, tyrosine, serine, arginine, lysine, aspartic acid, glutamic acid and cysteine.
- 5. The compound according to claim 1, wherein the oligopeptides have chain lengths of from 3 to 15 amino acids.
- 6. The compound according to claim 1, wherein the oligopeptides are chosen from the group consisting of homopolymers, copolymers or block copolymers.
- 7. The compound according to claim 1, wherein the polyethylene glycols have molar masses of at least 250 g/mol.

8. The compound according to claim 1, wherein C is a group chosen from the group consisting of thiazolidine, pyrrolidine and cyanopyrrolidine.

- 9. A pharmaceutical composition comprising the compound according to claim 1, optionally in combination with pharmaceutically acceptable carriers or adjuvants.
- 10. A cosmetic composition comprising the compound according to claim 1, optionally in combination with cosmetically acceptable carriers or adjuvants.
- 11. A method for topically influencing the activity of dipeptidyl peptidase IV or of analogous enzymes in a subject, comprising administering a therapeutically effective amount of at least one compound or pharmaceutical or cosmetic composition according to claim 1 to said subject.
- 12. A method for prophylaxis or therapy of diseases of the skin or mucosa, autoimmune diseases and inflammation in a subject, comprising administering a therapeutically effective amount of at least one compound or pharmaceutical or cosmetic composition according to claim 1 to said subject.
- 13. A method for prophylaxis or therapy of inflammation, psoriasis, allergies, arthritis, tumors or autoimmune diseases in a subject comprising the administration of a therapeutically effective amount of at least one compound or pharmaceutical or cosmetic composition according to claim 1 to said subject.
- 14. A pharmaceutical composition comprising at least one compound of the general formula A---C

В

. . ,

wherein

A is an amino acid having at least one functional group in the side chain, B is a chemical compound covalently bound to at least one functional group in the side chain of A, chosen from the group consisting of:

- (a) oligopeptides having a chain length of up to 20 amino acids,
- (b) polyethylene glycols having molar masses of up to 20,000 g/mol,

(c) optionally substituted organic amines, amides, alcohols, acids or aromatic compounds having from 8 to 50 carbon atoms,

4. C.A. ,

C is a group, amide-bonded to A, chosen from the group consisting of thiazolidine, pyrrolidine, cyanopyrrolidine, hydroxyproline, dehydroproline and piperidine, excluding H-Glu[NH(CH₂)₇CONH(CH₂)₃NHZ] pyrrolidide and H-Lys[CO(CH₂)₃NHSO₂Pfp] pyrrolidide

and at least one pharmaceutically acceptable adjuvant appropriate for the site of action.

- 15. The pharmaceutical composition according to claim 14, wherein A is an α -amino acid.
- 16. The pharmaceutical composition according to claim 15, wherein A is a natural α -amino acid.
- 17. The pharmaceutical composition according to claim 16, wherein the amino acid is chosen from the group consisting of threonine, tyrosine, serine, arginine, lysine, aspartic acid, glutamic acid and cysteine.
- 18. The pharmaceutical composition according to claim 14, wherein the oligopeptides have chain lengths of from 3 to 15 amino acids.
- 19. The pharmaceutical composition according to claim 14, wherein the oligopeptides are chosen from the group consisting of homopolymers, copolymers and block copolymers.
- 20. The pharmaceutical composition according to claim 14, wherein the polyethylene glycols have molar masses of at least 250 g/mol.
- 21. The pharmaceutical composition according to claims 14 to 21, wherein C is a group chosen from the group consisting of thiazolidine, pyrrolidine and cyanopyrrolidine.

- 22. The pharmaceutical composition according to claim 14, further comprising pharmaceutically acceptable carriers.
- 23. A method for topically influencing the activity of dipeptidyl peptidase IV or of analogous enzymes in a subject comprising administering to said subject a therapeutically effective amount of a pharmaceutical composition according to claim 14.
- 24. A Method for prophylaxis or therapy of diseases of the skin or mucosa, autoimmune diseases and inflammation in a subject comprising administering to said subject a therapeutically effective amount of a pharmaceutical composition according to claim 14.
- 25. A method for prophylaxis or therapy of inflammation, psoriasis, periodontitis, allergies, arthritis, tumors or autoimmune diseases in a subject comprising administering to said subject a therapeutically effective amount of a pharmaceutical composition according to claim 14.

Claims have been amended as follows:

No claims have been added or canceled.

Claim 14 has been amended to reflect changes made during PCT prosecution.

Claim 21 has been amended to remove multiple dependency.

A copy of the claims as originally submitted, a clean copy of the pending claims as amended, and a marked-up copy of the amended pending claims are included for your convenience.

Therefore, Applicant states the filing fees should be as follows:

Basic Filing Fee (small entity)	\$370
Additional Claims (5)	45
Late Charge	<u>130</u>
Total	<u>\$545</u>

Respectfully submitted,

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Dated:

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